

3.8.3 –6-dB Launch Amplitude

In applications where nominal 800 mVp-p launch amplitude is split into two 400 mVp-p launch amplitudes, the LMH1297 needs to be configured accordingly to achieve the optimum cable reach.

COMMAND	REGISTER	VALUE	MASK	//COMMENTS
RAW	FF	05	07	//Select ConfigIO Register Page
RAW	34	80	80	//Enable –6-dB splitter mode

3.8.4 Mute Reference Threshold

In some applications, users may want to limit the length of cable to equalize. This is accomplished by the mute reference threshold. If the cable EQ index exceeds the mute reference threshold, the LMH1297 will automatically mute the driver outputs. The example below shows how to set the mute reference threshold.

COMMAND	REGISTER	VALUE	MASK	//COMMENTS
RAW	FF	05	07	//Select ConfigIO Register Page
RAW	03	0E	3F	//Set the MUTERef value to EQ = 0x0E. If coarse adaptation EQ value exceeds 0x0E, the output will auto-mute.

COMMAND	REGISTER	VALUE	MASK	//COMMENTS
RAW	FF	05	07	//Select ConfigIO Register Page
RAW	03	3F	3F	//Set the MUTERef value to EQ = 0x3F. Since 0x37 is the maximum possible cable EQ index, the output will never auto-mute.